

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Previously Presented) An air conditioner that processes a latent heat load and a sensible heat load by using a vapor compression refrigeration cycle with a compressor, the air conditioner comprising:
 - a heat exchanger;
 - an absorbing agent that performs an absorbing operation for absorbing moisture in passing air flowing through the heat exchanger functioning as an evaporator and a regenerating operation for desorbing moisture from passing air heated by the heat exchanger functioning as a condenser; and
 - a controller configured to switch the absorbing operation and the regenerating operation at a predetermined switching time interval,the controller being configured to control a capacity of the compressor and being configured to control the predetermined switching time interval such that a predetermined load out of a total heat load, which is the sum of the latent heat load and the sensible heat load, is preferentially processed.
2. (Previously Presented) The air conditioner of claim 1, further comprising
 - an input unit that allows a user to select the predetermined load.
3. (Previously Presented) The air conditioner of claim 1, wherein the controller is configured to determine a first difference that is a difference between the current capability to process the total heat load and the size of the total heat load, a second difference that is a difference between the current capability to process the latent heat load and the size of the latent heat load, and a third difference that is a difference between the current capability to process the sensible heat load and the size of the sensible heat load, and to determine the predetermined load on the basis of the first, second, and third differences.
4. (Previously Presented) The air conditioner of claim 1, wherein

the controller is configured to prioritize changing a throughput of the latent heat load by controlling the capacity of the compressor over changing a throughput of the latent heat load by controlling the changing of the predetermined switching time interval when the predetermined load is the latent heat load.

5. (Previously Presented) The air conditioner of claim 1, wherein the controller is configured to prioritize changing a throughput of the latent heat load by controlling the changing of the predetermined switching time interval over changing a throughput of the latent heat load by controlling the capacity of the compressor when the predetermined load is the latent heat load.

6. (Previously Presented) The air conditioner of claim 1, wherein the controller is configured to prioritize changing a throughput of the sensible heat load by controlling the capacity of the compressor over changing a throughput of the sensible heat load by controlling the changing of the predetermined switching time interval when the predetermined load is the sensible heat load.

7. (Previously Presented) The air conditioner of claim 1, wherein the controller is configured to prioritize changing a throughput of the sensible heat load by controlling the changing of the predetermined switching time interval over changing a throughput of the sensible heat load by controlling the capacity of the compressor when the predetermined load is the sensible heat load.

8. (Previously Presented) The air conditioner of claim 1, wherein the controller first performs control of the capacity of the compressor when the predetermined load is the total heat load.

9. (Previously Presented) The air conditioner of claim 1, wherein the controller first fixes a ratio of the throughput of the latent heat load to the throughput of the sensible heat load by controlling the predetermined switching time interval and thereafter performs control of the capacity of the compressor when the predetermined load is the total heat load.

10. (Previously Presented) The air conditioner of claim 1, wherein the heat exchanger includes a first absorptive heat exchanger and a second absorptive heat exchanger, the absorbing agent is disposed on a surface of each of the first and second absorptive heat exchangers, and the controller switches between a first state where the air conditioner supplies to the room air that has been dehumidified or humidified by the absorbing operation or the regenerating operation by the absorbing agent of the first absorptive heat exchanger and a second state where the air conditioner supplies to the room air that has been dehumidified or humidified by the absorbing operation or the regenerating operation by the absorbing agent of the second absorptive heat exchanger.

11. (Previously Presented) The air conditioner of claim 1, wherein the heat exchanger includes a utilization heat exchanger and a heat source heat exchanger.

12. (Previously Presented) The air conditioner of claim 1, wherein the controller performs the control of the capacity of the compressor and the control for changing the switching time interval on the basis of at least one of the temperature of the evaporator, the pressure of the evaporator, the temperature of the condenser, and the pressure of the condenser.

13. (Previously Presented) A method of controlling an air conditioner comprising:

processing a latent heat load and a sensible heat load in a room by using a vapor compression refrigeration cycle with a compressor and a heat exchanger;

utilizing an absorbing agent that performs an absorbing operation for absorbing moisture in passing air flowing through the heat exchanger functioning as an evaporator and a regenerating operation for desorbing moisture from passing air heated by the heat exchanger functioning as a condenser;

performing control such that the absorbing operation and the regenerating operation are switched at a predetermined switching time interval; and

controlling a capacity of the compressor and controlling the predetermined switching time interval such that a predetermined load out of a total heat load, which is the sum of the latent heat load and the sensible heat load, is preferentially processed.

14. (Withdrawn) An air conditioner that processes a latent heat load and a sensible heat load in a room by using a vapor compression refrigeration cycle with a compressor, the air conditioner comprising:

a heat exchanger;

an absorbing agent that performs an absorbing operation for absorbing moisture in passing air flowing through the heat exchanger functioning as an evaporator and a regenerating operation for desorbing moisture from passing air heated by the heat exchanger functioning as a condenser; and

a controller configured to switch the absorbing operation and the regenerating operation at a predetermined switching time interval,

the controller being configured to control a capacity of the compressor and/or being configured to control the predetermined switching time interval based on at least one of a temperature of the evaporator, a pressure of the evaporator, a temperature of the condenser, and a pressure of the condenser.

15. (Withdrawn) The air conditioner of claim 14, wherein
the heat exchanger includes an absorptive heat exchanger that carries the absorbing agent on a surface of the absorptive heat exchanger.

16. (Withdrawn) The air conditioner of claim 14, wherein
the heat exchanger includes a utilization heat exchanger and a heat source heat exchanger.

17. (Withdrawn) The air conditioner of claim 14, wherein
the controller is configured to control the capacity of the compressor and/or control the predetermined switching time interval further based on humidity of air in the room.

18. (Withdrawn) The air conditioner of claim 14, wherein

the controller is configured to control the capacity of the compressor and/or control the predetermined switching time interval further based on humidity of the air flowing into the room from the heat exchanger.

19. (Withdrawn) The air conditioner of claim 14, wherein
the controller control the capacity of the compressor and/or control the predetermined switching time interval further based on temperature of the air flowing into the room from the heat exchanger.

20. (Withdrawn) A method of controlling an air conditioner comprising:
processing a latent heat load and a sensible heat load in a room by using a vapor compression refrigeration cycle with a compressor and a heat exchanger;
utilizing an absorbing agent that can perform an absorbing operation for absorbing moisture in passing air flowing through the heat exchanger functioning as an evaporator and a regenerating operation for desorbing moisture from passing air heated by the heat exchanger functioning as a condenser;
performing control to switch the absorbing operation and the regenerating operation at a predetermined switching time interval; and
controlling a capacity of the compressor and/or controlling the predetermined switching time interval based on at least one of a temperature of the evaporator, a pressure of the evaporator, a temperature of the condenser, and a pressure of the condenser.